# EXHIBIT M

#### Declaration of Dr. Jaimie Meyer

Pursuant to 28 U.S.C.§ 1746, I hereby declare as follows:

# I. Background and Qualifications

- 1. I am Dr. Jaimie Meyer, an Assistant Professor of Medicine at Yale School of Medicine and Assistant Clinical Professor of Nursing at Yale School of Nursing in New Haven, Connecticut. I am board certified in Internal Medicine, Infectious Diseases and Addiction Medicine. I completed my residency in Internal Medicine at NY Presbyterian Hospital at Columbia, New York, in 2008. I completed a fellowship in clinical Infectious Diseases at Yale School of Medicine in 2011 and a fellowship in Interdisciplinary HIV Prevention at the Center for Interdisciplinary Research on AIDS in 2012. I hold a Master of Science in Biostatistics and Epidemiology from Yale School of Public Health.
- 2. I have worked for over a decade on infectious diseases in the context of jails and prisons. From 2008-2016, I served as the Infectious Disease physician for York Correctional Institution in Niantic, Connecticut, which is the only state jail and prison for women in Connecticut. In that capacity, I was responsible for the management of HIV, Hepatitis C, tuberculosis, and other infectious diseases in the facility. Since then, I have maintained a dedicated HIV clinic in the community for patients returning home from prison and jail. For over a decade, I have been continuously funded by the NIH, industry, and foundations for clinical research on HIV prevention and treatment for people involved in the criminal justice system, including those incarcerated in closed settings (jails and prisons) and in the community under supervision (probation and parole). I have served as an expert consultant on infectious diseases and women's health in jails and prisons for the UN Office on Drugs and Crimes, the Federal Bureau of Prisons, and others. I also served as an expert health witness for the US Commission on Civil Rights Special Briefing on Women in Prison.
- 3. I have written and published extensively on the topics of infectious diseases among people involved in the criminal justice system including book chapters and articles in leading peer-reviewed journals (including Lancet HIV, JAMA Internal Medicine, American Journal of Public Health, International Journal of Drug Policy) on issues of prevention, diagnosis, and management of HIV, Hepatitis C, and other infectious diseases among people involved in the criminal justice system.
- 4. My C.V. includes a full list of my honors, experience, and publications, and it is attached as Exhibit A.
- 5. I am being paid \$1,000 for my time reviewing materials and preparing this report.
- 6. I have not testified as an expert at trial or by deposition in the past four years.

#### II. Heightened Risk of Epidemics in Jails and Prisons

- 7. The risk posed by infectious diseases in jails and prisons is significantly higher than in the community, both in terms of risk of transmission, exposure, and harm to individuals who become infected. There are several reasons this is the case, as delineated further below.
- 8. Globally, outbreaks of contagious diseases are all too common in closed detention settings and are more common than in the community at large. Prisons and jails are not isolated from communities. Staff, visitors, contractors, and vendors pass between communities and facilities and can bring infectious diseases into facilities. Moreover, rapid turnover of jail and prison populations means that people often cycle between facilities and communities. People often need to be transported to and from facilities to attend court and move between facilities. Prison health is public health.
- 9. Reduced prevention opportunities: Congregate settings such as jails and prisons allow for rapid spread of infectious diseases that are transmitted person to person, especially those passed by droplets through coughing and sneezing. When people must share dining halls, bathrooms, showers, and other common areas, the opportunities for transmission are greater. When infectious diseases are transmitted from person to person by droplets, the best initial strategy is to practice social distancing. When jailed or imprisoned, people have much less of an opportunity to protect themselves by social distancing than they would in the community. Spaces within jails and prisons are often also poorly ventilated, which promotes highly efficient spread of diseases through droplets. Placing someone in such a setting therefore dramatically reduces their ability to protect themselves from being exposed to and acquiring infectious diseases.
- 10. <u>Disciplinary segregation or solitary confinement is not an effective disease containment strategy.</u> Beyond the known detrimental mental health effects of solitary confinement, isolation of people who are ill in solitary confinement results in decreased medical attention and increased risk of death. Isolation of people who are ill using solitary confinement also is an ineffective way to prevent transmission of the virus through droplets to others because, except in specialized negative pressure rooms (rarely in medical units if available at all), air continues to flow outward from rooms to the rest of the facility. Risk of exposure is thus increased to other people in prison and staff.
- 11. Reduced prevention opportunities: During an infectious disease outbreak, people can protect themselves by washing hands. Jails and prisons do not provide adequate opportunities to exercise necessary hygiene measures, such as frequent handwashing or use of alcohol-based sanitizers when handwashing is unavailable. Jails and prisons are often under-resourced and ill-equipped with sufficient hand soap and alcohol-based sanitizers for people detained in and working in these settings. High-touch surfaces (doorknobs, light switches, etc.) should also be cleaned and disinfected regularly with bleach to prevent virus spread, but this is often not done in jails and prisons because of a lack of cleaning supplies and lack of people available to perform necessary cleaning procedures.
- 12. <u>Reduced prevention opportunities:</u> During an infectious disease outbreak, a containment strategy requires people who are ill with symptoms to be isolated and that caregivers have

- access to personal protective equipment, including gloves, masks, gowns, and eye shields. Jails and prisons are often under-resourced and ill-equipped to provide sufficient personal protective equipment for people who are incarcerated and caregiving staff, increasing the risk for everyone in the facility of a widespread outbreak.
- 13. <u>Increased susceptibility</u>: People incarcerated in jails and prisons are more susceptible to acquiring and experiencing complications from infectious diseases than the population in the community. This is because people in jails and prisons are more likely than people in the community to have chronic underlying health conditions, including diabetes, heart disease, chronic lung disease, chronic liver disease, and lower immune systems from HIV.
- 14. Jails and prisons are often poorly equipped to diagnose and manage infectious disease outbreaks. Some jails and prisons lack onsite medical facilities or 24-hour medical care. The medical facilities at jails and prisons are almost never sufficiently equipped to handle large outbreaks of infectious diseases. To prevent transmission of droplet-borne infectious diseases, people who are infected and ill need to be isolated in specialized airborne negative pressure rooms. Most jails and prisons have few negative pressure rooms if any, and these may be already in use by people with other conditions (including tuberculosis or influenza). Resources will become exhausted rapidly and any beds available will soon be at capacity. This makes both containing the illness and caring for those who have become infected much more difficult.
- 15. Jails and prisons lack access to vital community resources to diagnose and manage infectious diseases. Jails and prisons do not have access to community health resources that can be crucial in identifying and managing widespread outbreaks of infectious diseases. This includes access to testing equipment, laboratories, and medications.
- 16. Jails and prisons often need to rely on outside facilities (hospitals, emergency departments) to provide intensive medical care given that the level of care they can provide in the facility itself is typically relatively limited. During an epidemic, this will not be possible, as those outside facilities will likely be at or over capacity themselves.
- 17. Health safety: As an outbreak spreads through jails, prisons, and communities, medical personnel become sick and do not show up to work. Absenteeism means that facilities can become dangerously understaffed with healthcare providers. This increases a number of risks and can dramatically reduce the level of care provided. As health systems inside facilities are taxed, people with chronic underlying physical and mental health conditions and serious medical needs may not be able to receive the care they need for these conditions. As supply chains become disrupted during a global pandemic, the availability of medicines and food may be limited.
- 18. Safety and security: As an outbreak spreads through jails, prisons, and communities, correctional officers and other security personnel become sick and do not show up to

<sup>&</sup>lt;sup>1</sup> Active case finding for communicable diseases in prisons, 391 The Lancet 2186 (2018), https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(18)31251-0/fulltext.

- work. Absenteeism poses substantial safety and security risk to both the people inside the facilities and the public.
- 19. These risks have all been borne out during past epidemics of influenza in jails and prisons. For example, in 2012, the CDC reported an outbreak of influenza in 2 facilities in Maine, resulting in two inmate deaths.<sup>2</sup> Subsequent CDC investigation of 995 inmates and 235 staff members across the 2 facilities discovered insufficient supplies of influenza vaccine and antiviral drugs for treatment of people who were ill and prophylaxis for people who were exposed. During the H1N1-strain flu outbreak in 2009 (known as the "swine flu"), jails and prisons experienced a disproportionately high number of cases.<sup>3</sup> Even facilities on "quarantine" continued to accept new intakes, rendering the quarantine incomplete. These scenarios occurred in the "best case" of influenza, a viral infection for which there was an effective and available vaccine and antiviral medications, unlike COVID-19, for which there is currently neither.

### III. Profile of COVID-19 as an Infectious Disease4

20. The novel coronavirus, officially known as SARS-CoV-2, causes a disease known as COVID-19. The virus is thought to pass from person to person primarily through respiratory droplets (by coughing or sneezing) but may also survive on inanimate surfaces. People seem to be most able to transmit the virus to others when they are sickest but it is possible that people can transmit the virus before they start to show symptoms or for weeks after their symptoms resolve. In China, where COVID-19 originated, the average infected person passed the virus on to 2-3 other people; transmission occurred at a distance of 3-6 feet. Not only is the virus very efficient at being transmitted through droplets, everyone is at risk of infection because our immune systems have never been exposed to or developed protective responses against this virus. A vaccine is currently in development but will likely not be able for another year to the general public. Antiviral medications are currently in testing but not yet FDA-approved, so only available for compassionate use from the manufacturer. People in prison and jail will likely have even less access to these novel health strategies as they become available.

https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6113a3.htm.

<sup>&</sup>lt;sup>2</sup> Influenza Outbreaks at Two Correctional Facilities — Maine, March 2011, Centers for Disease Control and Prevention (2012),

<sup>&</sup>lt;sup>3</sup> David M. Reutter, Swine Flu Widespread in Prisons and Jails, but Deaths are Few, Prison Legal News (Feb. 15, 2010), <a href="https://www.prisonlegalnews.org/news/2010/feb/15/swine-flu-widespread-in-prisons-and-jails-but-deaths-are-few/">https://www.prisonlegalnews.org/news/2010/feb/15/swine-flu-widespread-in-prisons-and-jails-but-deaths-are-few/</a>.

<sup>&</sup>lt;sup>4</sup> This whole section draws from Brooks J. Global Epidemiology and Prevention of COVID19, COVID-19 Symposium, Conference on Retroviruses and Opportunistic Infections (CROI), virtual (March 10, 2020); Coronavirus (COVID-19), Centers for Disease Control, <a href="https://www.cdc.gov/coronavirus/2019-ncov/index.html">https://www.cdc.gov/coronavirus/2019-ncov/index.html</a>; Brent Gibson, COVID-19 (Coronavirus): What You Need to Know in Corrections, National Commission on Correctional Health Care (February 28, 2020), <a href="https://www.ncchc.org/blog/covid-19-coronavirus-what-you-need-to-know-in-corrections">https://www.ncchc.org/blog/covid-19-coronavirus-what-you-need-to-know-in-corrections</a>.

- 21. Most people (80%) who become infected with COVID-19 will develop a mild upper respiratory infection but emerging data from China suggests serious illness occurs in up to 16% of cases, including death.<sup>5</sup> Serious illness and death is most common among people with underlying chronic health conditions, like heart disease, lung disease, liver disease, and diabetes, and older age.<sup>6</sup> Death in COVID-19 infection is usually due to pneumonia and sepsis. The emergence of COVID-19 during influenza season means that people are also at risk from serious illness and death due to influenza, especially when they have not received the influenza vaccine or the pneumonia vaccine.
- 22. The care of people who are infected with COVID-19 depends on how seriously they are ill. People with mild symptoms may not require hospitalization but may continue to be closely monitored at home. People with moderate symptoms may require hospitalization for supportive care, including intravenous fluids and supplemental oxygen. People with severe symptoms may require ventilation and intravenous antibiotics. Public health officials anticipate that hospital settings will likely be overwhelmed and beyond capacity to provide this type of intensive care as COVID-19 becomes more widespread in communities.
- 23. COVID-19 prevention strategies include containment and mitigation. Containment requires intensive hand washing practices, decontamination and aggressive cleaning of surfaces, and identifying and isolating people who are ill or who have had contact with people who are ill, including the use of personal protective equipment. Jails and prisons are totally under-resourced to meet the demand for any of these strategies. As infectious diseases spread in the community, public health demands mitigation strategies, which involves social distancing and closing other communal spaces (schools, workplaces, etc.) to protect those most vulnerable to disease. Jails and prisons are unable to adequately provide social distancing or meet mitigation recommendations as described above.
- 24. The time to act is now. Data from other settings demonstrate what happens when jails and prisons are unprepared for COVID-19. News outlets reported that Iran temporarily released 70,000 prisoners when COVID-19 started to sweep its facilities.<sup>8</sup> To date, few state or federal prison systems have adequate (or any) pandemic preparedness plans in

<sup>7</sup> Coronavirus Disease 2019 (COVID-19): Interim Clinical Guidance for Management of Patients with Confirmed Coronavirus Disease, Centers for Disease Control and Prevention (March 7, 2020), https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-guidance-management-patients.html.

<sup>&</sup>lt;sup>5</sup> Coronavirus Disease 2019 (COVID-19): Situation Summary, Centers for Disease Control and Prevention (March 14, 2020), <a href="https://www.cdc.gov/coronavirus/2019-ncov/summary.html">https://www.cdc.gov/coronavirus/2019-ncov/summary.html</a>. <sup>6</sup> Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study. The Lancet (published online March 11, 2020), <a href="https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)30566-3/fulltext">https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)30566-3/fulltext</a>

<sup>&</sup>lt;sup>8</sup> Iran temporarily releases 70,000 prisoners as coronavirus cases surge, Reuters (March 9, 2020), https://www.reuters.com/article/us-health-coronavirus-iran/iran-temporarily-releases-70000-prisoners-as-coronavirus-cases-surge-idUSKBN20W1E5,

place. Systems are just beginning to screen and isolate people on entry and perhaps place visitor restrictions, but this is wholly inadequate when staff and vendors can still come to work sick and potentially transmit the virus to others.

#### IV. Risk of COVID-19 in ICE's NYC-Area Detention Facilities

- 25. I have reviewed the following materials in making my assessment of the danger of COVID-19 in the Bergen, Essex, Hudson, and Orange County jails ("ICE's NYC-area jails"): (1) a declaration by Marinda van Dalen, a Senior Attorney in the Health Justice Program at New York Lawyers for the Public Interest (NYLPI); (2) the report Detained and Denied: Healthcare Access in Immigration Detention, released by NYLPI in 2017; and (3) the report Ailing Justice: New Jersey, Inadequate Healthcare, Indifference, and Indefinite Confinement in Immigration Detention, released by Human Rights First in 2018.
- 26. Based on my review of these materials, my experience working on public health in jails and prisons, and my review of the relevant literature, it is my professional judgment that these facilities are dangerously under-equipped and ill-prepared to prevent and manage a COVID-19 outbreak, which would result in severe harm to detained individuals, jail and prison staff, and the broader community. The reasons for this conclusion are detailed as follows.
- 27. The delays in access to care that already exist in normal circumstances will only become worse during an outbreak, making it especially difficult for the facilities to contain any infections and to treat those who are infected.
- 28. Failure to provide individuals with continuation of the treatment they were receiving in the community, or even just interruption of treatment, for chronic underlying health conditions will result in increased risk of morbidity and mortality related to these chronic conditions.
- 29. Failure to provide individuals adequate medical care for their underlying chronic health conditions results in increased risk of COVID-19 infection and increased risk of infection-related morbidity and mortality if they do become infected.
- 30. People with underlying chronic mental health conditions need adequate access to treatment for these conditions throughout their period of detention. Failure to provide adequate mental health care, as may happen when health systems in jails and prisons are taxed by COVID-19 outbreaks, may result in poor health outcomes. Moreover, mental health conditions may be exacerbated by the stress of incarceration during the COVID-19 pandemic, including isolation and lack of visitation.

<sup>&</sup>lt;sup>9</sup> Luke Barr & Christina Carrega, State prisons prepare for coronavirus but federal prisons not providing significant guidance, sources say, ABC News (March 11, 2020), <a href="https://abcnews.go.com/US/state-prisons-prepare-coronavirus-federal-prisons-providing-significant/story?id=69433690">https://abcnews.go.com/US/state-prisons-prepare-coronavirus-federal-prisons-providing-significant/story?id=69433690</a>.

- 31. Failure to keep accurate and sufficient medical records will make it more difficult for the facilities to identify vulnerable individuals in order to both monitor their health and protect them from infection. Inadequate screening and testing procedures in facilities increase the widespread COVID-19 transmission.
- 32. Language barriers will similarly prevent the effective identification of individuals who are particularly vulnerable or may have symptoms of COVID-19. Similarly, the failure to provide necessary aids to individuals who have auditory or visual disabilities could also limit the ability to identify and monitor symptoms of COVID-19.
- 33. The commonplace neglect of individuals with acute pain and serious health needs under ordinary circumstances is also strongly indicative that the facilities will be ill-equipped to identify, monitor, and treat a COVID-19 epidemic.
- 34. The failure of these facilities to adequately manage single individuals in need of emergency care is a strong sign that they will be seriously ill-equipped and underprepared when a number of people will need urgent care simultaneously, as would occur during a COVID-19 epidemic.
- 35. For individuals in these facilities, the experience of an epidemic and the lack of care while effectively trapped can itself be traumatizing, compounding the trauma of incarceration.

#### V. Conclusion and Recommendations

- 36. For the reasons above, it is my professional judgment that individuals placed in ICE's NYC-area jails are at a significantly higher risk of infection with COVID-19 as compared to the population in the community and that they are at a significantly higher risk of harm if they do become infected. These harms include serious illness (pneumonia and sepsis) and even death.
- 37. Reducing the size of the population in jails and prisons can be crucially important to reducing the level of risk both for those within those facilities and for the community at large.
- 38. As such, from a public health perspective, it is my strong opinion that individuals who can safely and appropriately remain in the community not be placed in ICE's NYC-area jails at this time. I am also strongly of the opinion that individuals who are already in those facilities should be evaluated for release.
- 39. This is more important still for individuals with preexisting conditions (e.g., heart disease, chronic lung disease, chronic liver disease, suppressed immune system, diabetes) or who are over the age of 60. They are in even greater danger in these facilities, including a meaningfully higher risk of death.
- 40. It is my professional opinion that these steps are both necessary and urgent. The horizon of risk for COVID-19 in these facilities is a matter of days, not weeks. Once a case of

COVID-19 identified in a facility, it will likely be too late to prevent a widespread outbreak.

41. Health in jails and prisons is community health. Protecting the health of individuals who are detained in and work in these facilities is vital to protecting the health of the wider community.

I declare under penalty of perjury that the foregoing is true and correct.

March 15, 2020 New Haven, Connecticut

Dr. Jaimie Meyer

# **EXHIBIT A**

# **CURRICULUM VITAE**

Date of Revision: November 20, 2019

Name: Jaimie Meyer, MD, MS, FACP School: Yale School of Medicine

#### Education:

BA, Dartmouth College Anthropology 2000

MD, University of Connecticut School of Medicine 2005

MS, Yale School of Public Health Biostatistics and Epidemiology 2014

# Career/Academic Appointments:

2005 - 2008	Residency, Internal Medicine, NY Presbyterian Hospital at Columbia, New York, NY
2008 - 2011	Fellowship, Infectious Diseases, Yale University School of Medicine, New Haven, CT
2008 - 2012	Clinical Fellow, Infectious Diseases, Yale School of Medicine, New Haven, CT
2010 - 2012	Fellowship, Interdisciplinary HIV Prevention, Center for Interdisciplinary Research on
	AIDS, New Haven, CT
2012 - 2014	Instructor, AIDS, Yale School of Medicine, New Haven, CT
2014 - present	Assistant Professor, AIDS, Yale School of Medicine, New Haven, CT
2015 - 2018	Assistant Clinical Professor, Nursing, Yale School of Medicine, New Haven, CT

# **Board Certification:**

AB of Internal Medicine, Internal Medicine, 08-2008, 01-2019
AB of Internal Medicine, Infectious Disease, 10-2010
AB of Preventive Medicine, Addiction Medicine, 01-2018

# Professional Honors & Recognition:

# International/National/Regional

2018	NIH Center for Scientific Review, Selected as Early Career Reviewer
2017	Doris Duke Charitable Foundation, Doris Duke Charitable Foundation Scholar
2016	American College of Physicians, Fellow
2016	NIH Health Disparities, Loan Repayment Award Competitive Renewal
2016	AAMC, Early Career Women Faculty Professional Development Seminar
2014	NIH Health Disparities, Loan Repayment Program Award
2014	NIDA, Women & Sex/Gender Differences Junior Investigator Travel Award
2014	International Women's/Children's Health & Gender Working Group, Travel Award
2014	Patterson Trust, Awards Program in Clinical Research
2013	Connecticut Infectious Disease Society, Thornton Award for Clinical Research
2011	Bristol Myers-Squibb, Virology Fellows Award

2006 NY Columbia Presbyterian, John N. Loeb Intern Award

2005 American Medical Women's Association, Medical Student Citation

2005 Connecticut State Medical Society, Medical Student Award

2000 Dartmouth College, Hannah Croasdale Senior Award

2000 Dartmouth College, Palaeopitus Senior Leadership Society Inductee

Yale University

2014 Women's Faculty Forum, Public Voices Thought Leadership Program Fellow

# Grants/Clinical Trials History:

**Current Grants** 

Agency: Center for Interdisciplinary Research on AIDS (CIRA)

I.D.#: 2019-20 Pilot Project Awards

Title: Optimizing PrEP's Potential in Non-Clinical Settings: Development and

Evaluation of a PrEP Decision Aid for Women Seeking Domestic Violence

Services

P.I.: Tiara Willie

Role: Principal Investigator

Percent effort: 2%

Direct costs per year: \$29,993.00

Total costs for project

period: \$29,993.00

Project period: 7/11/2019 - 7/10/2020

Agency: SAMHSA I.D.#: H79 TI080561

Title: CHANGE: Comprehensive Housing and Addiction Management Network for

Greater New Haven

Role: Principal Investigator

Percent effort: 20%

Direct costs per year: \$389,054.00

Total costs for project

period: \$1,933,368.00

Project period: 11/30/2018 - 11/29/2023

Agency: Gilead Sciences, Inc.

I.D.#: Investigator Sponsored Award, CO-US-276-D136

Title: Delivering HIV Pre-Exposure Prophylaxis to Networks of Justice-Involved

Women

Role: Principal Investigator

Percent effort: 8%

Direct costs per year: \$81,151.00

Total costs for project

period: \$306,199.00

Project period: 6/19/2018 - 1/31/2020

Agency: NIDA

I.D.#: R21 DA042702

Title: Prisons, Drug Injection and the HIV Risk Environment

Role: Principal Investigator

Percent effort: 22%

Direct costs per year: \$129,673.00

Total costs for project

period: \$358,276.00

Project period: 8/1/2017 - 7/31/2020

Agency: Doris Duke Charitable Foundation

I.D.#: Clinical Scientist Development Award

Title: Developing and Testing the Effect of a Patient-Centered HIV Prevention

Decision Aid on PrEP uptake for Women with Substance Use in Treatment

Settings

Role: Principal Investigator

Percent effort: 27%

Direct costs per year: \$149,959.00

Total costs for project

period: \$493,965.00

Project period: 7/1/2017 - 6/30/2020

**Past Grants** 

Agency: NIDA

I.D.#: K23 DA033858

Title: Evaluating and Improving HIV Outcomes in Community-based Women who

Interface with the Criminal Justice System

Role: Principal Investigator

Percent effort: 75%

Direct costs per year: \$149,509.00

Total costs for project

period: \$821,147,00

Project period: 7/1/2012 - 11/30/2017

Agency: Robert Leet & Clara Guthrie Patterson Trust

I.D.#: R12225, Award in Clinical Research

Title: Disentangling the Effect of Gender on HIV Treatment and Criminal Justice

Outcomes

Role: Principal Investigator

Percent effort: 10%

Direct costs per year: \$75,000.00

Total costs for project

period: \$75,000.00

Project period: 1/31/2014 - 10/31/2015

Agency: Bristol-Myers Squibb

I.D.#: HIV Virology Fellowship Award

Title: Effect of newer antiretroviral regimens on HIV biological outcomes in HIV-

infected prisoners: a 13 year retrospective evaluation

Role: Principal Investigator

Percent effort: 10%

Direct costs per year: \$34,390.00

Total costs for project

period: \$34,390.00

Project period: 12/1/2011 - 11/30/2012

**Pending Grants** 

Agency: NIMH

I.D.#: R01 MH121991

Title: Identifying Modifiable Risk and Protective Processes at the Day-Level that

Predict HIV Care Outcomes among Women Exposed to Partner Violence

P.I.: Sullivan, Tami

Role: Principal Investigator

Percent effort: 30%

Direct costs per year: \$499,755.00

Total costs for project

period: \$4,148,823.00

Project period: 1/1/2020 - 12/31/2024

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

International/National

2019: CME Outfitters, Washington, DC. "A Grassroots Approach to Weed out HIV and HCV in Special OUD Populations"

2019: US Commission on Civil Rights, Washington, DC. "An Analysis of Women's Health, Personal Dignity and Sexual Abuse in the US Prison System"

2018: College of Problems on Drug Dependence, College of Problems on Drug Dependence, San Diego, CA. "Research on Women who Use Drugs: Knowledge and Implementation Gaps and A Proposed Research Agenda"

2018: Clinical Care Options, Washington, DC. "Intersection of the HIV and Opioid Epidemics"

2016: Dartmouth Geisel School of Medicine, Hanover, NH. "Incarceration as Opportunity: Prisoner Health and Health Interventions"

2010: Rhode Island Chapter of the Association of Nurses in AIDS Care, Providence, RI. "HIV and Addiction"

#### Regional

- 2018: Clinical Directors Network, New York, NY. "PrEP Awareness among Special Populations of Women and People who Use Drugs"
- 2018: Frank H. Netter School of Medicine, Quinnipiac University, Hamden, CT. "HIV prevention for justice-involved women"
- 2017: Clinical Directors Network, New York, NY. "Optimizing the HIV Care Continuum for People who use Drugs"
- 2016: Frank H. Netter School of Medicine, Quinnipiac University, Hamden, CT. "Topics in Infectious Diseases"
- 2016: Connecticut Advanced Practice Registered Nurse Society, Wethersfield, CT. "Trends in HIV Prevention: Integration of Biomedical and Behavioral Approaches"

# Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale: International/National

- 2019: CPDD 81st Annual Scientific Meeting, CPDD, San Antonio, TX. "Punitive approaches to pregnant women with opioid use disorder: Impact on health care utilization, outcomes and ethical implications"
- 2019: 14th International Conference on HIV Treatment and Prevention Adherence, IAPAC Adherence, Miami, FL. "Decision-Making about HIV Prevention among Women in Drug Treatment: Is PrEP Contextually Relevant?"
- 2019: 2019 NIDA International Forum, NIDA, San Antonio, TX. "Diphenhydramine Injection in Kyrgyz Prisons: A Qualitative Study Of A High-Risk Behavior With Implications For Harm Reduction"
- 2019: 11th International Women's and Children's Health and Gender (InWomen's) Group, InWomen's Group, San Antonio, TX. "Uniquely successful implementation of methadone treatment in a women's prison in Kyrgyzstan"
- 2019: Harm Reduction International, Porto, Porto District, Portugal. "How does methadone treatment travel? On the 'becoming-methadone-body' of Kyrgyzstan prisons"
- 2019: APA Collaborative Perspectives on Addiction Annual Meeting, APA Collaborative Perspectives on Addiction Annual Meeting, Providence, RI. "Impact of Trauma and Substance Abuse on HIV PrEP Outcomes among Women in Criminal Justice Systems. Symposium: "Partner Violence: Intersected with or Predictive of Substance Use and Health Problems among Women.""
- 2019: Society for Academic Emergency Medicine (SAEM), Worcester, MA. "Effects of a Multisite Medical Home Intervention on Emergency Department Use among Unstably Housed People with Human Immunodeficiency Virus"
- 2019: Conference on Retroviruses and Opportunistic Infections (CROI), IAS, Seattle, WA. "Released to Die: Elevated Mortality in People with HIV after Incarceration"
- 2019: 12th Academic and Health Policy on Conference on Correctional Health, 12th Academic and Health Policy on Conference on Correctional Health, Las Vegas, NV. "PrEP Eligibility and HIV Risk Perception for Women across the Criminal Justice Continuum in Connecticut"
- 2019: Association for Justice-Involved Female Organizations (AJFO), Atlanta, GA. "Treatment of Women's Substance Use Disorders and HIV Prevention During and Following Incarceration"

- 2018: American Public Health Association (APHA) Annual Meeting, American Public Health Association (APHA) Annual Meeting, San Diego, CA. "New Haven Syringe Service Program: A model of integrated harm reduction and health care services"
- 2018: 12th National Harm Reduction Conference, 12th National Harm Reduction Conference, New Orleans, LA. "Service needs and access to care among participants in the New Haven Syringe Services Program"
- 2018: 22nd International AIDS Conference, 22nd International AIDS Conference, Amsterdam, NH, Netherlands. "HIV risk perceptions and risk reduction strategies among prisoners in Kyrgyzstan: a qualitative study"
- 2018: 22nd International AIDS Conference, 22nd International AIDS Conference, Amsterdam, NH, Netherlands. "Methadone Maintenance Therapy Uptake, Retention, and Linkage for People who Inject Drugs Transitioning From Prison to the Community in Kyrgyzstan: Evaluation of a National Program"
- 2018: NIDA International Forum, NIDA, San Diego, CA. "HIV and Drug Use among Women in Prison in Azerbaijan, Kyrgyzstan and Ukraine"
- 2018: 2018 Conference on Retroviruses and Opportunistic Infections (CROI), CROI, Boston, MA. "From prison's gate to death's door: Survival analysis of released prisoners with HIV"
- 2018: 11th Academic and Health Policy on Conference on Correctional Health, Academic Consortium on Criminal Justice Health, Houston, TX. "Assessing Concurrent Validity of Criminogenic and Health Risk Instruments among Women on Probation in Connecticut"
- 2017: IDWeek: Annual Meeting of Infectious Diseases Society of America, Infectious Diseases Society of America, San Diego, CA. "Predictors of Linkage to and Retention in HIV Care Following Release from Connecticut, USA Jails and Prisons (Oral presentation)"
- 2017: International AIDS Society (IAS) Meeting, International AIDS Society, Paris, Île-de-France, France. "Late breaker: Predictors of Linkage to and Retention in HIV Care Following Release from Connecticut, USA Jails and Prisons"
- 2017: NIDA International Forum, NIDA, Montreal, QC, Canada. "A Mixed Methods Evaluation of HIV Risk among Women with Opioid Dependence in Ukraine"
- 2017: International Women's and Children's Health and Gender Working Group, International Women's and Children's Health and Gender Working Group, Montreal, QC, Canada. "Assessing Receptiveness to and Eligibility for PrEP in Criminal Justice-Involved Women"
- 2017: International Women's and Children's Health and Gender Working Group, International Women's and Children's Health and Gender Working Group, Montreal, QC, Canada. "A Mixed Methods Evaluation of HIV Risk among Women with Opioid Dependence in Ukraine"
- 2017: Annual Meeting of the Society for Applied Anthropology, Society for Applied Anthropology, Santa Fe, NM. "Where rubbers meet the road: HIV risk reduction for women on probation (Oral presentation)"
- 2016: International Women's and Children's Health and Gender Working Group, International Women's and Children's Health and Gender Working Group, Palm Springs, CA. "An Event-level Examination of Successful Condom Negotiation Strategies among College Women"
- 2015: CDC National HIV Prevention Conference, CDC, Atlanta, GA. "Beyond the Syndemic: Condom Negotiation and Use among Women Experiencing Partner Violence (Oral presentation)"

- 2015: International Harm Reduction Conference, International Harm Reduction, Kuala Lumpur, Federal Territory of Kuala Lumpur, Malaysia. "Evidence-Based Interventions to Enhance Assessment, Treatment, and Adherence in the Chronic Hepatitis C Care Continuum"
- 2015: International Women's and Children's Health and Gender Working Group, International Women's and Children's Health and Gender Working Group, Phoenix, AZ. "Violence, Substance Use, and Sexual Risk among College Women"
- 2014: International Women's and Children's Health and Gender Working Group, International Women's and Children's Health and Gender Working Group, San Juan, San Juan, Puerto Rico. "Gender Differences in HIV and Criminal Justice Outcomes"
- 2014: College on Problems in Drug Dependence (CPDD), College on Problems in Drug Dependence (CPDD), San Juan, San Juan, Puerto Rico. "Gender Differences in HIV and Criminal Justice Outcomes"
- 2014: Conference on Retroviruses and Opportunistic Infections (CROI), Conference on Retroviruses and Opportunistic Infections (CROI), Boston, MA. "Longitudinal Treatment Outcomes in HIV-Infected Prisoners and Influence of Re-Incarceration"
- 2013: HIV Intervention and Implementation Science Meeting, HIV Intervention and Implementation Science Meeting, Bethesda, MD. "Women Released from Jail Experience Suboptimal HIV Treatment Outcomes Compared to Men: Results from a Multi-Center Study"
- 2013: Conference on Retroviruses and Opportunistic Infections (CROI), Conference on Retroviruses and Opportunistic Infections (CROI), Atlanta, GA. "Women Released from Jail Experience Suboptimal HIV Treatment Outcomes Compared to Men: Results from a Multi-Center Study"
- 2012: IDWeek: Infectious Diseases Society of America Annual Meeting, Infectious Diseases Society of America, San Diego, CA. "Correlates of Retention in HIV Care after Release from Jail: Results from a Multi-site Study"
- 2012: IDWeek: Infectious Diseases Society of America Annual Meeting, Infectious Diseases Society of America, San Diego, CA. "Frequent Emergency Department Use among Released Prisoners with HIV: Characterization Including a Novel Multimorbidity Index"
- 2012: 5th Academic and Health Policy Conference on Correctional Health, 5th Academic and Health Policy Conference on Correctional Health, Atlanta, GA. "Effects of Intimate Partner Violence on HIV and Substance Abuse in Released Jail Detainees"
- 2011: IAPAC HIV Treatment and Adherence Conference, IAPAC, Miami, FL. "Adherence to HIV treatment and care among previously homeless jail detainees"

#### Regional

- 2019: Connecticut Infectious Disease Society, New Haven, CT. "Preliminary Findings from a Novel PrEP Demonstration Project for Women Involved in Criminal Justice Systems and Members of their Risk Networks"
- 2017: Connecticut Public Health Association Annual Conference, Connecticut Public Health Association, Farmington, CT. "The New Haven syringe services program"
- 2014: Connecticut Infectious Disease Society Annual Meeting, Connecticut Infectious Disease Society, Orange, CT. "Longitudinal Treatment Outcomes in HIV-Infected Prisoners and Influence of Re-Incarceration"

- 2013: Connecticut Infectious Disease Society Annual Meeting, Connecticut Infectious Disease Society, Orange, CT. "Women Released from Jail Experience Suboptimal HIV Treatment Outcomes Compared to Men: Results from a Multi-Center Study"
- 2011: Connecticut Infectious Disease Society Annual Meeting, Connecticut Infectious Disease Society,
  Orange, CT. "Emergency Department Use by Released Prisoners with HIV"

# Professional Service:

# Peer Review Groups/Grant Study Sections

2019 - present	Reviewer, NIDA,	NIH Reviewer: RFA-DA-19-025: HEAL Initiative: Justice Community
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Opioid Innovation Network (JCOIN) Clinical Research Centers

2019 - present Reviewer, Yale DCFAR Pilot Projects

2018 - present Reviewer, Center for Interdisciplinary Research on AIDS (CIRA)

2015 - present Reviewer, University of Wisconsin-Milwaukee Research Growth Initiative

#### **Advisory Boards**

2017 Advisor, HIV Prevention and Treatment in Cis-Gendered Women, Gilead Sciences, Inc.

#### Journal Service

#### Editor/Associate Editor

2019 - present Associate Editor, Journal of the International Association of Providers of AIDS Care

(JIAPAC), Section Editor: Sex and Gender Issues

#### Reviewer

2019 - present	Reviewer, JAIDS
2012 - present	Reviewer, Addiction Sci and Clin Pract
2012 - present	Reviewer, Addictive Behav Reports
2012 - present	Reviewer, AIDS Care
2012 - present	Reviewer, Social Science and Medicine
2012 - present	Reviewer, SpringerPlus
2012 - present	Reviewer, Substance Abuse Treatment Prevention and Policy
2012 - present	Reviewer, Women's Health Issues
2012 - present	Reviewer, Yale Journal of Biology and Medicine
2012 - present	Reviewer, AIMS Public Health
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2012 - present Reviewer, American Journal on Addictions 2012 - present Reviewer, American Journal of Epidemiology

2012 - present Reviewer, American Journal of Public Health

2012 - present Reviewer, Annals Internal Medicine
2012 - present Reviewer, BMC Emergency Medicine
2012 - present Reviewer, BMC Infectious Diseases
2012 - present Reviewer, BMC Public Health

2012 - present Reviewer, BMC Women's Health

2012 - present	Reviewer, Clinical Infectious Diseases
2012 - present	Reviewer, Critical Public Health
2012 - present	Reviewer, Drug and Alcohol Dependence
2012 - present	Reviewer, Drug and Alcohol Review
2012 - present	Reviewer, Epidemiologic Reviews
2012 - present	Reviewer, Eurosurveillance
2012 - present	Reviewer, Health and Justice (Springer Open)
2012 - present	Reviewer, International Journal of Drug Policy
2012 - present	Reviewer, International Journal of Prisoner Health
2012 - present	Reviewer, International Journal of STDs and AIDS
2012 - present	Reviewer, International Journal of Women's Health
2012 - present	Reviewer, JAMA Internal Medicine
2012 - present	Reviewer, Journal of Family Violence
2012 - present	Reviewer, Journal of General Internal Medicine
2012 - present	Reviewer, Journal of Immigrant and Minority Health
2012 - present	Reviewer, Journal of International AIDS Society
2012 - present	Reviewer, Journal of Psychoactive Drugs
2012 - present	Reviewer, Journal of Urban Health
2012 - present	Reviewer, Journal of Women's Health
2012 - present	Reviewer, Open Forum Infectious Diseases
2012 - present	Reviewer, PLoS ONE
2012 - present	Reviewer, Public Health Reports

# Professional Service for Professional Organizations

AAMC Group on Women in Medicine and Science (GWIMS)

2016 - present Member, AAMC Group on Women in Medicine and Science (GWIMS)

#### American College of Physicians

2016 - present Fellow, American College of Physicians
 2013 - 2016 Member, American College of Physicians

#### American Medical Association

2005 - present Member, American Medical Association

#### American Medical Women's Association

2011 - present Member, American Medical Women's Association

#### American Society of Addiction Medicine

2009 - present Member, American Society of Addiction Medicine

#### Connecticut Infectious Disease Society

2011 - present Member, Connecticut Infectious Disease Society

#### Infectious Disease Society of America

2008 - present Member, Infectious Disease Society of America

#### InWomen's Network, NIDA International Program

2013 - present Member, InWomen's Network, NIDA International Program

#### New York State Medical Society

2005 - 2008 Member, New York State Medical Society

# Yale University Service

#### University Committees

2016 - 2018 Council Member, Leadership Council, Women's Faculty Forum

#### Medical School Committees

2015 - 2016	Committee Member, US Health and Justice Course, Yale School of Medicine

2014 - present Committee Member, Yale Internal Medicine Traditional Residency Intern Selection

Committee

#### **Public Service**

2019 - present	Faculty Member, Yale University Program in Addiction Medicine
2017 - present	Faculty Member, Arthur Liman Center for Public Interest Law, Yale Law School
2013 - present	Mentor, Women in Medicine at Yale Mentoring Program
2012 - present	Faculty Member, Yale Center for Interdisciplinary Research on AIDS
2009 - 2011	Instructor, Preclinical Clerkship Tutor, Yale School of Medicine
2002	Fellow, Soros Open Society Institute

Fellow, Costa Rican Humanitarian Foundation

Bibliography:

1998 - 1999

#### Peer-Reviewed Original Research

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- Chen NE, Meyer JP, Bollinger R, Page KR. HIV testing behaviors among Latinos in Baltimore City. Journal Of Immigrant And Minority Health / Center For Minority Public Health 2012, 14:540-51.
- Chitsaz E, Meyer JP, Krishnan A, Springer SA, Marcus R, Zaller N, Jordan AO, Lincoln T, Flanigan TP, Porterfield J, Altice FL. Contribution of substance use disorders on HIV treatment outcomes and antiretroviral medication adherence among HIV-infected persons entering jail. AIDS And Behavior 2013, 17 Suppl 2:S118-27.

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- 15. Peasant C, Sullivan TP, Weiss NH, Martinez I, Meyer JP. Beyond the syndemic: condom negotiation and use among women experiencing partner violence. AIDS Care 2017, 29:516-523.
- Wickersham JA, Gibson BA, Bazazi AR, Pillai V, Pedersen CJ, Meyer JP, El-Bassel N, Mayer KH, Kamarulzaman A, Altice FL. Prevalence of Human Immunodeficiency Virus and Sexually Transmitted Infections Among Cisgender and Transgender Women Sex Workers in Greater Kuala Lumpur, Malaysia: Results From a Respondent-Driven Sampling Study. Sexually Transmitted Diseases 2017, 44:663-670.
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#### Chapters, Books, and Reviews

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- 31. Meyer JP, Chen NE, Springer SA. HIV Treatment in the Criminal Justice System: Critical Knowledge and Intervention Gaps. AIDS Research And Treatment 2011, 2011:680617.
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#### Peer-Reviewed Educational Materials

- 43. The Fortune Society Reentry Education Project Detailing Kit. New York City Department of Health and Mental Hygiene. October 2014
- 44. United Nations Office on Drugs and Crime. Vienna, Austria

#### Invited Editorials and Commentaries

- 45. Meyer JP. Capsule Commentary on Pyra et al., sexual minority status and violence among HIV infected and at-risk women. Journal Of General Internal Medicine 2014, 29:1164.
- Brinkley-Rubinstein L, Dauria E, Tolou-Shams M, Christopoulos K, Chan PA, Beckwith CG, Parker S,
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- 47. Meyer JP. The Sustained Harmful Health Effects of Incarceration for Women Living with HIV. Journal Of Women's Health (2002) 2019, 28:1017-1018.

#### Case Reports, Technical Notes, Letters

- Paul J. Bullous pemphigoid in a patient with psoriasis and possible drug reaction: a case report. Connecticut Medicine 2004, 68:611-5.
- How J, Azar MM, Meyer JP. Are Nectarines to Blame? A Case Report and Literature Review of Spontaneous Bacterial Peritonitis Due to Listeria monocytogenes. Connecticut Medicine 2015, 79:31-6.
- 50. Vazquez Guillamet LJ, Malinis MF, **Meyer JP**. Emerging role of Actinomyces meyeri in brain abscesses: A case report and literature review. IDCases 2017, 10:26-29.
- Harada K, Heaton H, Chen J, Vazquez M, Meyer J. Zoster vaccine-associated primary varicella infection in an immunocompetent host. BMJ Case Reports 2017, 2017.
- Bernardo R, Streiter S, Tiberio P, Rodwin BA, Mohareb A, Ogbuagu O, Emu B, Meyer JP. Answer to December 2017 Photo Quiz. Journal Of Clinical Microbiology 2017, 55:3568.
- Bernardo R, Streiter S, Tiberio P, Rodwin BA, Mohareb A, Ogbuagu O, Emu B, Meyer JP. Photo Quiz: Peripheral Blood Smear in a Ugandan Refugee. Journal Of Clinical Microbiology 2017, 55:3313-3314.

#### Scholarship In Press

54. Hoff E, Adams Z, Dasgupta A, Goddard D, Sheth S, Meyer J. Reproductive Health Justice and Autonomy: A systematic review of pregnancy planning intentions, needs, and interventions among women involved in US criminal justice systems. J Women's Health